

## ABSTRACT

A novel bulb and bulb assembly. In an embodiment, the present invention comprises a shell enclosing a hollow interior, and a tube intersecting with the shell such that the ends of the tube reside outside the shell and a portion of the tube resides within the shell. Each intersection  
5 of the tube and the shell in this embodiment is accomplished so that any contents of the hollow interior of the shell are sealed within the shell and any contents of the hollow interior of the shell are segregated from any contents of the portion of the tube residing within the shell. This embodiment may further comprise at least one electrode having at least one end terminating inside the shell. This embodiment may further comprise a source of electromagnetic waves  
10 positioned such that electromagnetic waves emanating from the source of electromagnetic waves pass through the shell.